



TECHNICAL DATA

Product name: AG-F© Aerogel Cold Insulation Felt

Current version: 1.0.1, issued: 09.05.2023 **Replaced version:** 1.0.0, issued: 05.05.2023

Product description

Brief description

AG-F © Aerogel Cold Insulation Felt can provide the best cold preservation effect and energy-saving economic value at a temperature of -200°C. The product is a kind of flexible cold insulation blanket made of nano silica Aerogel and inorganic materials by nanocomposite technology . The material has ultra-low thermal conductivity , and its thickness is 75% thinner than that of similar products. It can be installed more quickly and easily, saving time and money. Ideal for low energy consumption.

Product features

- (1) Excellent cold insulation.
- (2) Excellent fire resistance and hydrophobicity.
- (3) Easy to cut and install.
- (4) Safety and environment friendly, no poison.
- (5) Long service life, energy saving and cost control.
- (6) The product does not contain any chloride ions, which greatly avoiding corrosion under the insulation layer (CUI).

Applications

The product can greatly reduce cold loss and BOG (flash steam) loss, and is suitable for cryogenic pipeline equipment , medium and low temperature pipelines, air coolers/pipes, etc., such as LNG storage and transportation, liquid nitrogen and liquid oxygen storage and transportation equipment or transportation pipelines, etc.

Technical parameters

Test Item	Measured Value	
Thickness	5mm, 10mm	
Width	1500 mm	
Appearance	Rolls, sheets	
Thermal conductivity	0.0125 W/(m·k) at -159°C	GB/T 1029 4-2008
	0.0132 W/(m·k) at -81°C	
	0.0135 W/(m·k) at -65°C	
	0.014 W/(m·k) at -27°C	
	0.0146 W/(m·k) at 0°C	
	0.015 W/(m·k) at +10°C	
Using temperature range	-200 ~ 125°C	/
Density	160 ~ 240 kg/m ³	GB/T 5480-2008
Hydrophobicity rate	≥98%	GB / T 10299-2011

Optional Services

AG-F© Aerogel Cold Insulation Felt can be bonded with aluminum foil according to customer needs to prevent water vapor penetration, cut into specified sizes according to requirements, and provide application consultation and construction process guidance for customers' working conditions.

Precautions

Safety protection regulations:	Dust will inevitably appear during the transportation and construction of materials. It is recommended to install exhaust equipment in places prone to dust generation. Construction personnel wear dust masks, gloves, goggles and other protective facilities throughout the process to avoid direct contact with Skin and eye contact.
Transportation and storage:	The means of transportation should have dry and rainproof measures, and should be handled with care during handling and transportation to avoid heavy pressure. It should be stored under the conditions of dryness, ventilation, rainproof, far away from fire, heat and chemical solvents, and should be stacked separately according to varieties and specifications to avoid heavy pressure.
Construction and installation:	For industrial applications, it is recommended to refer to the construction instruction manual of medium condensation. For more information and support, please contact us.

Note: the product technical information and relevant data mentioned in the above data are the experimental test values of the manufacturer, which are only for reference, not as legal interpretation and guarantee. Please use them after testing and confirmation according to the working conditions required by your company before use.